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SEQUENCE LISTING

<110> LEUNG, Shui-on
HANSEN, Hans
QU, Zhengxing

<120> GLYCOSYLATED HUMANIZED B-CELL SPECIFIC ANTIBODIES

<130> 018733/1049

<140> US 09/894,839
<141> 2001-06-29

<150> US 09/155,107
<151> 1998-11-17

<150> US 60/013,709
<151> 1996-03-20

<160> 47

<170> PatentIn version 3.1

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gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt       96
Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
            20                  25                  30

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag      144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45

tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc      192
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60

cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc      240
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65                  70                  75                  80
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atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa      288
Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
                85                  90                  95

tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa      336
Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110

cgt                                                                  339
Arg
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<213> Murinae gen. sp.

<400> 2

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Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
            20                  25                  30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65                  70                  75                  80

Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
                85                  90                  95

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110

Arg
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<210> 3
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Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Leu Ser Lys Pro Gly Ala
1               5                   10                  15

tca gtg aag atg tcc tgc aag gct tct ggc tac acc ttt act agc tac       96
Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

tgg ctg cac tgg ata aaa cag agg cct gga cag ggt ctg gaa tgg att      144
Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
        35                  40                  45

gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc      192
Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
    50                  55                  60

aag gac aag gcc aca ttg act gca gac aaa tcc tcc agc aca gcc tac      240
Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80

atg caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt      288
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95

gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc act ctc      336
Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
            100                 105                 110

aca gtc tcc tcg                                                     348
Thr Val Ser Ser
        115
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<210> 4
<211> 116
<212> PRT
<213> Murinae gen. sp.

<400> 4

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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
        35                  40                  45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
    50                  55                  60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
            100                 105                 110

Thr Val Ser Ser
        115
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Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

gat agg gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt       96
Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
            20                  25                  30

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg aaa      144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
        35                  40                  45

gca cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc      192
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60
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```
cct tcg cga ttc tct ggc agc gga tct ggg aca gat ttt act ttc acc      240
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65                  70                  75                  80

atc agc tct ctt caa cca gaa gac att gca aca tat tat tgt cac caa      288
Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
                85                  90                  95

tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag gtg cag atc aaa      336
Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Val Gln Ile Lys
            100                 105                 110

cgt                                                                  339
Arg
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<210> 6
<211> 113
<212> PRT
<213> Homo sapiens

<400> 6

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Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
            20                  25                  30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
        35                  40                  45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65                  70                  75                  80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
                85                  90                  95

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Val Gln Ile Lys
            100                 105                 110

Arg
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<210> 7
<211> 348
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1               5                   10                  15

tca gtg aag gtc tcc tgc aag gct tct ggc tac acc ttt act agc tac       96
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

tgg ctg cac tgg gtc agg cag gca cct gga cag ggt ctg gaa tgg att      144
Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
        35                  40                  45

gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc      192
Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
    50                  55                  60

aag gac aag gcc aca ata act gca gac gaa tcc acc aat aca gcc tac      240
Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65                  70                  75                  80

atg gag ctg agc agc ctg agg tct gag gac acg gca ttt tat ttt tgt      288
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
                85                  90                  95

gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc acg gtc      336
Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
            100                 105                 110

acc gtc tcc tcg                                                     348
Thr Val Ser Ser
        115
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<210> 8
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<213> Homo sapiens

<400> 8

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
115

<210> 9
<211> 49
<212> PRT
<213> Homo sapiens

<400> 9

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 10
<211> 49
<212> PRT
<213> Homo sapiens

<400> 10

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Ser Ala Leu Thr Ser Gly
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20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 11
<211> 49
<212> PRT
<213> Homo sapiens

<400> 11

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Asn Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 12
<211> 49
<212> PRT
<213> Homo sapiens

<400> 12

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Asn
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 13
<211> 49
<212> PRT
<213> Homo sapiens

<400> 13

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Asn Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 14
<211> 49
<212> PRT
<213> Homo sapiens

<400> 14

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Asn Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 15
<211> 53
<212> PRT
<213> Homo sapiens

<400> 15

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 16
<211> 53
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<213> Homo sapiens

<400> 16

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Ser Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 17
<211> 53
<212> PRT
<213> Homo sapiens

<400> 17

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Asn Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 18
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<213> Homo sapiens

<400> 18

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
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Gly Asn Ser Asn Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 19
<211> 53
<212> PRT
<213> Homo sapiens

<400> 19

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Asn Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 20
<211> 113
<212> PRT
<213> Homo sapiens

<400> 20

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Thr Pro Gly Lys
35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
85 90 95

Tyr Leu Ser Ser Trp Thr Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
100 105 110

Arg

<210> 21
<211> 116
<212> PRT
<213> Homo sapiens

<400> 21

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
115

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ctgatgaccc aggtttcttg acttcagcc 149

<210> 23
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<400> 23
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ctgctcagct ccatgtaggc tgtattggtg gattcgtctg cagttattgt ggccttgtcc 120

ttgaagttct gatt 134

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<211> 38
<212> DNA
<213> Artificial Sequence

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<400> 24
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<210> 25
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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<400> 25
aagtggatcc tataatcatt cctaggatta atg 33

<210> 26
<211> 49
<212> DNA
<213> Artificial Sequence

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<400> 26
taatcctagg aatgattata ctgagtacaa tcagaacttc aaggacaag 49

<210> 27
<211> 44
<212> DNA
<213> Artificial Sequence

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<400> 27
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<210> 28
<211> 150
<212> DNA
<213> Artificial Sequence

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<400> 28
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ggccaagtag ttcttgtgat ttgcactgta taaaacactt tgactggact tacagctcat 120

agtgacccta tctccaacag atgcgctcag 150

<210> 29
<211> 52
<212> DNA
<213> Artificial Sequence

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<210> 30
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<212> DNA
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<400> 30
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<400> 31
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<212> DNA
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<400> 32
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<210> 33
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<400> 33
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<210> 34
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<210> 35
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<400> 35
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<210> 36
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<213> Artificial Sequence

<220>
<223> Primer

<400> 36
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<210> 37
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<212> DNA
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<220>
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<400> 37
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<210> 38
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<213> Artificial Sequence

<220>
<223> Primer

<400> 38
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<210> 39
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<220>
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<212> DNA
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<220>
<223> Primer

<400> 42
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<210> 43
<211> 37
<212> DNA
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<220>
<223> Primer

<400> 43
gccctccagc agcaacggta cccagaccta catctgc 37

<210> 44
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 44
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<210> 45
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<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 45
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<210> 46
<211> 33
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<400> 46
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<210> 47
<211> 33
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